

THE ARCTIC LYMANTRIID LARVA FROM MT. WASHINGTON,
N. H. (*DASYCHIRA ROSSII* CURT.?)

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About twenty years ago, Mr. Grote recorded (*Psyche*, 1, 131) the capture on Mt. Washington, above timber line, of an Arctic form of Lymantriidae which he referred to as a variety of *Laria rossii* Curtis. Last summer a number of larvae occurred to me on *Vaccinium* and *Betula* near the summit which I believe to be the larvae of this species. Others were found by Mrs. A. T. Slosson and, near the top of Mt. Adams, by Master Richard Seager. The larvae do not agree with Dr. Packard's description of *Laria rossii* (*Amer. Nat.* xi, 52) taken by the Polaris expedition in northern Greenland, but neither did his moths quite correspond, and he may have had before him examples of *Dasychira groenlandica* in which the hind wings are colored as he describes. The original locality for *rossii* in Boothia is much nearer to our own region than is northern Greenland, and true *rossii* has been recorded from Labrador by Christoph and Möschler; hence it seems probable that the Mt. Washington race should prove more like these. The moths are actually so, showing the yellowish color on the hind wings.

There seems little doubt but that these Arctic forms are branches of a race represented in Europe by *Dasychira selenitica*. If we remove from the larva of *selenitica* the slender hair

pencils which arise from joints 2 and 12, we should have a very close approximation to the larva described by Dr. Packard; and if we further modify the same larva by adding tufts on joints 10 and 11, like those already present on joints 5 to 9 and 12, we should have practically the Mt. Washington larva.

Curtis describes the larva of *D. rossii* as follows: "Large and hairy, of a beautiful shining velvety black, the hairs being somewhat ochereous; there are two tufts of black on the back, followed by two of orange." Unfortunately this meagre statement leaves the question open as to whether *D. rossii* is like Dr. Packard's larva or mine. Perhaps the "two black and two orange tufts" refers to the younger stages; it cannot refer to either Dr. Packard's mature larva or to mine. In the rest of the description there is no mention of the absence of tufts from joints 10 and 11, and the presumption would be that the larvae were uniformly tufted like my Mt. Washington ones. However, I recognize that too much weight should not be given to omissions in such imperfect descriptions.

The following is a description of the Mt. Washington larvae: Head rounded, velvety brown-black, densely hairy; clypeus black, smooth; a reddish shade on the posterior side of head; width 3.2 mm. Warts normal

for the Lymantriidae: three above the stig-
matal wart on joints 3 and 4; wart i mod-
erately large on abdomen; wart iv very
small, behind the spiracle; leg plates dis-
tinct. Dorsal eversible areas on joints 10
and 11 normal, whitish, more or less con-
cealed by the hair, often completely so.
Body black with a frosty gray shade; hair
thick, all barbed, some heavily feathered
but none plumed. Tufts from warts i on

joints 5 to 9 and 12 a little more closely
bunched, but no true tufts and no pencils.
Hair gray, mixed with black, with bright yel-
low hairs on the lower side of wart ii on
joints 5 to 13 and at the bases of all the hair
bunches on the thorax. Subventral hair
bunches small. The gray hairs are densely
feathery on warts i to v, the black and yel-
low ones only spinulose. Hair not very
long, quite even but not regularly so.

NOTES ON THE SPECIES OF EXORISTA OF TEMPERATE NORTH AMERICA.

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The following twelve species of *Exo-
rista* all belong to the middle and
eastern United States with one excep-
tion, *E. lagoae* being from Guanajuato
on the Mexican tableland. They com-
prise all the species that I have so far
been able to recognize from the tem-
perate portions of North America.
None of the twenty-seven Mexican
species described by Mr. v. d. Wulp
are included. They mostly belong to
the neotropical fauna. I am under
many obligations to Mr. S. H. Scudder
for sending me, some years ago, the
types of the dipterous parasites men-
tioned in his *Butterflies of the Eastern
United States and Canada*. It was a
study of these, and comparison of them
with other types which I then possessed,
that enabled me to prepare the follow-
ing table of *Exorista*, as well as a
similar one of the allied genera *Masi-
cera* and *Phorocera*. I have examined
all the species mentioned in the table.

Table of Species.

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| 1. Palpi wholly black or dark brown-
ish | 2 |
| Palpi wholly or partly yellow or
rufous yellow | 5 |
| 2. Second abdominal segment with
both discal and marginal macro-
chaetae | 3 |
| Second segment with only marginal
macrochaetae | 4 |
| 3. Anal segment unusually bristly,
rather strongly and thickly so
<i>hirsuta</i>
Abdomen with only the usual
bristles <i>nigripalpis</i> | |
| 4. Anal segment brassy yellow polli-
nose <i>futilis</i>
Abdomen shining black and silvery,
without brassy pollen on anal
segment <i>theclarum</i> | |
| 5. Second and third segments with both
discal and marginal macrochaetae
. | 6 |